

**SLUMP
OF
HYDRAULIC CEMENT CONCRETE
AASHTO T 119**

APPARATUS

- [] Slump cone critical dimensions verified within the last 12 months
- [] Nonabsorbent base plate with clamping arrangement (optional)
- [] Tamping rod
 - [] Round straight steel rod $5/8 \pm 1/16$ inch diameter
 - [] At least 4 inches longer than the measure used
 - [] Maximum length of 24 inches
 - [] Tamping end rounded to hemispherical tip with same diameter as the rod
- [] Measuring Tape
 - [] Ruler, roll-up measuring tape, or similar rigid or semi-rigid measuring instrument
 - [] Minimum 12 in. in length and marked in increments of 1/4 in. or smaller
- [] Scoop, a size large enough that the amount of concrete obtained from the sampling receptacle is representative and a size small enough that the concrete is not spilled during placement into the mold

PROCEDURE

- [] Cone dampened and placed on a flat, moist, nonabsorbent, and rigid surface
- [] Cone filled in three layers of approximately equal volume. For each layer, the scoop is moved around the perimeter of the mold opening to ensure even distribution and minimal segregation of the concrete
- [] Bottom layer rodded 25 times throughout its depth, with half of the strokes near the perimeter at an incline and half the strokes vertically in a spiral motion toward the center
- [] Second and top layer rodded 25 times throughout its depth, penetrating approximately 1 in. into the underlying layer
- [] Top layer kept heaped above the cone during rodding. If rodding is stopped to add additional concrete, counting is resumed so that the total number of roddings is equal to 25 times.
- [] Cone struck off level with the top by means of a screeding and rolling motion of the tamping rod
- [] Cone held firmly and concrete removed from the area surrounding the base
- [] Cone raised a distance of 12 in. in 5 ± 2 seconds by a steady upward lift with no lateral or torsional motion

- [] Test completed without interruption within an elapsed time of 2 1/2 minutes
- [] Slump measured with the measuring tape by determining the vertical difference between the top of the cone and the displaced original center of the top surface of the specimen. Slump is reported to the nearest 1/4 in.
- [] If decided falling away or shearing off of concrete from one side or portion of mass occurs, test disregarded and new test made on another portion of sample

NA - Not Applicable
X - Requires Corrective Action
√ - Satisfactory

Acceptance Technician

INDOT

Date

Comments: _____

